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The memory fragmentation problem: Solved?

[psu.edu](#) [PDF]

MS Johnstone, PR Wilson - ACM SIGPLAN Notices, 1999 - portal.acm.org

... This **allocator** is a **segregated fit** algorithm with 128 size classes. ... **Table 2:** Maximum number of live objects per size class ... hand-optimized memory **allocation**, because a well-designed **allocator** should usually be able to do as well as or better than most programmers' hand ...

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TLSF: A new dynamic memory **allocator** for real-time systems

[upv.es](#) [PDF]

M Masmano, I Ripoll, A Crespo, J Real - 16th Euromicro Conference ... - ieeexplore.ieee.org

... that Doug Lea's **allocator** [6], which implements a good-fit policy (a nearly best-fit based on a **segregated fit** policy), performs ... It is also possible that the **allocator** relies on the underlying OS (or the hardware MMU) to request new memory areas to ... First **allocation** requests are ...

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Memory **allocation** with lazy fits

[psu.edu](#) [PDF]

Y Chung, SM Moon - ... of the 2nd international symposium on ..., 2000 - portal.acm.org

... A backup **allocation** with a **segregated fit** when **allocation** with a pointer increment fails, on ... fitting algorithms would be used even more in- frequently than in **table 6**. Since ... Lea's memory **allocator** implementation uses something sim- ilar to pointer incrementing **allocation** in order ...

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Implementation of a constant-time dynamic storage **allocator**

[psu.edu](#) [PDF]

M Masmano, I Ripoll, J Real, A ... - Software: Practice ..., 2008 - interscience.wiley.com

... 16], the authors presented a new **allocator** called TLSF (two-level **segregated fit**) and compared ...

Temporal requirements: The primary requirement for any real-time **allocator** is to provide allo ...

The worst-case execution time (WCET) of memory **allocation** and deallocation has to be ...

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[HTML] Magazines and vmem: Extending the slab **allocator** to many CPUs and arbitrary resources

[usernix.org](#) [HTML]

J Bonwick, J Adams - usernix.org

... If the **map** ever gets more fragmented than that, the **allocator** throws away resources ... allocated segments (white) are also linked into an allocated-segment hash **table**, and boundary ... This

approach, called **segregated fit**, actually approximates best-fit because any segment on the ...

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[\[PDF\] Dynamic storage allocation for real-time embedded systems](#)

[psu.edu \[PDF\]](#)

M Masmano, I Ripoll, A Crespo - Proceedings of the Real-Time Systems ..., 2003 - Citeseer

... The basic **segregated fit** mechanism uses an array of free lists, with each array holding free blocks within a ... search sequence is as follows: 1.- calculate the "f" and "s" indexes (using the **map**-ping function ... An algorithm with constant execu- tion time for dynamic storage **allocation**. ...

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[Dynamic memory management for embedded real-time systems](#)

[psu.edu \[PDF\]](#)

A Crespo, I Ripoll, M Masmano - From Model-Driven Design to Resource ..., 2006 - Springer

... TLSF (Two Level **Segregated Fit**) is a new **allocator** has been designed specif- ically to meet real-time constraints. ... **Table 2**. Fragmentation worst-case ... problem is a problem of "poor" **allocator** implementations rather than an intrinsic characteristic of the **allocation** problem itself A ...

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[A comparison of memory allocators for real-time applications](#)

M Masmano, I Ripoll, A Crespo - ... on Java technologies for real-time ..., 2006 - portal.acm.org

... TLSF (Two-Level **Segregated Fit**) [11] is a bounded-time, good-fit **allocator**. ... **Table 1**: Algorithm complexity **Allocation** Deallocation First-fit/Best-fit $O(H \cdot 2M)$ $O(1)$ Binary-buddy $O(\log_2(H \cdot M))$ $O(\log_2(H \cdot M))$ DLalloc $O(H \cdot M)$ $O(1)$ Half-fit $O(1)$ $O(1)$ TLSF $O(1)$ $O(1)$...

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[Efficient system-level prototyping of power-aware dynamic memory managers for embedded systems](#)

[psu.edu \[PDF\]](#)

D Atienza, S Mamagkakis, F Poletti, JM ... - INTEGRATION, the VLSI ..., 2006 - Elsevier

... This example is depicted in Fig. 3. Thus, we can merge the two **allocation** heaps saving memory footprint because the memory can be reused for both. ... For the results shown in Figs. 5, 8, and **Table 2**, we use the View the MathML source technology node. ...

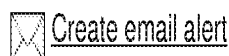
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[A high-performance memory allocator for memory intensive applications](#)

JM Chang, Y Hasan, WH Lee - hpc, 2000 - computer.org

... process is much efficient than splitting process which is used in conventional **segregated fit** algorithms ... The different **allocation** bits used enable free() to differentiate between pre-allocated chunks to be ... Next **table** provides a summary of the size of the tested programs (in terms of ...

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